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Amendments to the Claims

This listing of the claims will replace all prior versions and listings. Claims 1-10, 16 and 21 have been canceled. Claim 22-28 have been added. Claims 11-15, 17-20, and 22-28 are currently pending in this application.

Listing of Claims:

Claims 1-10 (canceled).

- Claim 11 (currently amended): A method of inhibiting bacterial infection, said method comprising:
 - a) identifying the presence of a bacteria in a mammal; and
 - b) administering to said mammal a protein comprising a sequence selected from the group consisting of: i) SEQ ID NO: 1-5, 7-10, and 12-24; and ii) a sequence which has 95% identity to a sequence in i); and iii) a peptidomimetic small molecule which mimies the activity of a protein in i); in an amount effective to kill said bacteria.
- Claim 12 (currently amended): The method of claim 11, wherein the protein is delivered by a method selected from the group consisting of bacteriophage, an expression vector, or direct administration of protein or a peptidomimetic small molecule.
- Claim 13 (original): The method of claim 11, wherein the protein comprises a combination of proteins having sequences selected from the group consisting of SEQ ID NO: 2 and 3; SEQ ID NO: 3 and 4; SEQ ID NO: 2, 3, and 4; SEQ ID NO: 1, 2, 3, and 4; SEQ ID NO: 9 and 10; SEQ ID NO: 14 and 15; SEQ ID NO: 8 and 14; SEQ ID NO: 8 and 15; SEQ ID NO: 8, 14, and 15; SEQ ID NO: 16, 17, and 18; SEQ ID NO: 17 and 18; SEQ ID NO: 16, 17, 18, and 19; SEQ ID NO: 17, 18, and 19; and SEQ ID NO: 20, 21, and 22.
- Claim 14 (original): The method of claim 13, wherein the proteins have the sequences of SEQ ID NO: 8, 14, and 15.
- Claim 15 (original): The method of claim 11, wherein the protein is fused to a cationic agent, a hydrophobic agent, a signal sequence, a lipid or combinations thereof, and is

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delivered by a method selected from: inhalation of an aerosolized anti-bacterial peptide; topical application; injection; and oral ingestion.

Claim 16 (canceled).

Claim 17 (previously presented): A method of inhibiting bacterial infection, said method comprising:

- a) generating a bacteriophage vector, said vector comprising an expression construct operably linked to a recombinant bactericidal SPO1 gene;
- b) identifying the presence of a bacteria in a mammal; and
- c) administering the bacteriophage of a) to the mammal of b).
- Claim 18 (previously presented): The method of claim 17, wherein said bactericidal SPO1 gene encodes a protein selected from the group consisting of: i) SEQ ID NO: 1-5, 7-10, and 12-24; and ii) a sequence that has 95% identity to a sequence in i).
- Claim 19 (currently amended): A method of inhibiting bacterial infection, said method comprising:
 - a) identifying the presence of a bacteria in a mammal; and
 - b) administering to said mammal a pharmaceutical comprising a composition selected from the group consisting of a bactericidal SPO1 protein and a combination of bactericidal SPO1 proteins peptidomimetic which mimics a bactericidal SPO1 protein.
- Claim 20 (previously presented): The method of claim 19, wherein said bactericidal SPO1 protein comprises a sequence selected from the group consisting of: i) SEQ ID NO: 1-5, 7-10, and 12-24; and ii) a sequence which has 95% identity to a sequence in i).

Claim 21 (canceled).

- Claim 22 (new): A method of inhibiting bacterial infection, said method comprising:
 - a) identifying the presence of a bacteria in a mammal; and

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b) administering to said mammal a pharmaceutical composition comprising a combination of bactericidal SPO1 proteins, wherein said combination comprises a protein of SEQ ID NO: 8 and one or more proteins selected from the group consisting of SEQ ID NO: 1-5, 7, 9, 10, and 12-24, in an amount effective to inhibit the growth of said bacteria.

- Claim 23 (new): The method of claim 22, wherein said combination comprises a protein selected from the group consisting of SEQ ID NO: 2 and 3; SEQ ID NO: 3 and 4; SEQ ID NO: 2, 3, and 4; SEQ ID NO: 1, 2, 3, and 4; SEQ ID NO: 9 and 10; SEQ ID NO: 14 and 15; SEQ ID NO: 8 and 14; SEQ ID NO: 8 and 15; SEQ ID NO: 8, 14, and 15; SEQ ID NO: 16, 17, and 18; SEQ ID NO: 17 and 18; SEQ ID NO: 16, 17, 18, and 19; SEQ ID NO: 17, 18, and 19; and SEQ ID NO: 20, 21, and 22.
- Claim 24 (new): The method of claim 22, wherein said combination comprises a protein selected from the group consisting of SEQ ID NO: 14 and SEQ ID NO: 15.
- Claim 25 (new): The method of claim 22, wherein said combination comprises SEQ ID NO: 14 and SEQ ID NO: 15.
- Claim 26 (new): The method of claim 22, wherein said pharmaceutical composition comprises as an expression construct comprising nucleic acids encoding said proteins operably linked to one or more promoters.
- Claim 27 (new): The method of claim 24, wherein said expression construct is a vector.
- Claim 28 (new): The method of claim 25 wherein said vector is delivered via phage.